

## BEST AVAILABLE COPY

## COIL SPRING CONSISTING OF COMPOUND MATERIAL

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Inventor: OKAYA KAN; HITOMI KEIICHI

Applicant: MITSUBISHI RAYON CO

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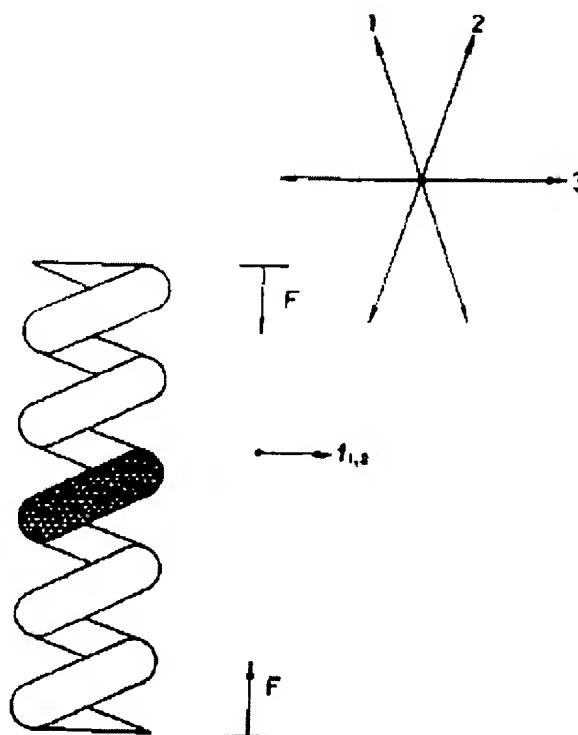
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## Abstract of JP58091940

**PURPOSE:** To decrease weight of a spring and increase its shock resistance, by arranging a reinforcing material alternately at a diagonal angle while almost perpendicularly with respect to the axis of a wire body.

**CONSTITUTION:** A coil spring is formed by three-axis arranged braided cords formed by strings 1-3. As a result, in case of applying force  $F$  to the direction of an axial line of the coil spring, force  $f_1$  or  $f_2$  is acted in a torsional direction to a wire body. Then the direction of  $f_1$ ,  $f_2$  is almost aligned to the arranged direction of the strings 1, 2 to fully display counter force. However, in case of instantaneously excessive force acting on the axial line of a coil, a wire body forming the coil is mutually contacted to frequently cause a case in which the force  $F$  on the axial line of the coil is directly applied. However, the force  $F$  is loaded to the string 3 and shock resistance can be obtained.



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